TEAC NAS Microserver Installation Guide

Thank you for purchasing the TEAC NAS Microserver kit.

The TEAC NAS Microserver is a Networked Attached Storage device that connects to an existing LAN for extended storage. It also can be used as a file server, web server, print server, DHCP server, DNS server, Internet router and as a wireless LAN Access Point.

Recommended System Requirements

- ❑ Straight (non-crossover) Cat5 LAN cable (10 BaseT or 100BaseT)
- ❑ Network hub/switch with an available port
- ❑ Host computer with the following installed:
  - ❑ Floppy disk drive
  - ❑ 10/100 Mbps Ethernet interface card
  - ❑ Client operating system: Windows 98SE/Me/2000/NT 4.0 SP 4 or newer/ XP
  - ❑ Web browser: Internet Explorer 4.0 or later, or Netscape Navigator 4.7 or later
- ❑ IEEE 802.11b-compliant wireless LAN card adapter (required only for wireless LAN communication)
- ❑ Ethernet environment using the TCP/IP protocol

NAS Microserver Package Contents

The TEAC NAS Microserver kit includes the following items (see Figure 3):

- ❑ TEAC NAS Microserver
- ❑ External wireless antenna
- ❑ System reset key
- ❑ Vertical product stand
- ❑ Vendotto Manager Windows-based software floppy disk
- ❑ Vendotto Sync Windows-based software floppy disk
- ❑ Vendotto markers (18) - not shown
- ❑ AC adapter and power cable
- ❑ *TEAC NAS Microserver Installation Guide* (this booklet)
- ❑ *Vendotto Operation Manual* (electronic version)

  The *Vendotto Operation Manual* is a more detailed document (approximately 131 pages) available on the Microserver's hard disk in Adobe Acrobat PDF format. You can access it by clicking the [Operation Manual] button in the Vendotto WebTool (see Figure 6). Please disregard the reference to iOffice (page 109) in the *Vendotto Operation Manual* (electronic version) since this software is not available for this package.

Specifications

Vendotto	Specifications			
Model	NAS-80	NAS-120	NAS-160	NAS-240
Capacity	80GB	120GB	160GB	240GB
CPU Speed	300MHz			
Interface	LAN/LAN (dual NIC cards)			
Remote Access	Wireless LAN (IEEE 802.11b) with external antenna			
Network Transport Protocols	TCP/IP, IPX and AppleTalk			
Network File Protocols	Microsoft Networks, UNIX, Internet (HTTP) and Apple			
Network Security	Supports Microsoft NT Domain Controller; User-level, Share-level and File-level			
Network Client OS Support:	Windows 98/Me/XP/2000/NT 4.0, Macintosh OS 8/9/X, Red Hat Linux 6.2/7.0/7.1, Sun Solaris 7/8, SCO UnixWare 7.1.1, AIX 4.3.3 and HP-UX 11			
Server OS Emulation:	Windows NT 4.0 and Appleshare 6.0			
Standard I/O Ports	Ethernet 10/100 Base-T (RJ-45), Parallel printer port (IEEE-1284), and Serial port			
Optional I/O Ports	DSL modem access and wireless antenna connection			
IP Address Assignment	Supports automatic assignment through DHCP			
System Software	Vendotto Manager, a web-based server management utility; Vendotto Sync backup software			
Memory	64MB RAM			
Power Requirement	100–240V. 50/60Hz			
Power Source	External power supply (19V, DC3.15A)			
Power Consumption	50W max. (typical 5W)			
Operating Environment	5° to 40° C, 10% to 90% humidity (non-condensing)			
Non-Operating Environment	-10° to 60°, 20% to 80% humidity (non- condensing)			
Agency Approvals	FCC Class A			
Dimensions	10.12" (h) x 7.64" (d) x 2.76" (w)			
Weight	5.95 lbs.			
Color	Black			

① **HDD LED:** Flashes when data is read or written to hard disk.

② **LAN LED:** Flashes when data is sent to or received from the local area network (LAN).

③ **Status LED:** Lights to indicate the following states: (a) at power on, before the NAS Microserver receives an IP address; (b) an error has been detected; (c) the NAS Microserver is waiting for DHCP to correct an error; (d) system recovery with the system reset key is complete; (e) flashes to indicate system recovery with the system reset key is in progress.

④ **EXP LED:** Flashes when data is sent to or received over the network and an expansion board is installed.

⑤ **Power LED:** Flashes to indicate system start up and shutdown; stays lit during normal operation.

⑥ **Power button:** Press this button to start or shut down the system.

⑦ **Reset button:** You can reset the system power by inserting a small, thin rod (such as a straightened paper clip) into the reset hole and pressing firmly. The Power LED will start flashing and the system will take approximately 15 minutes to complete the power reset cycle. The Microserver will be ready when the Power LED stops flashing and stays solidly lit. If necessary, launch the Vendotto Manager software again to re-detect the NAS Microserver.

⑧ **holes:** To hold the enclosed Vendotto markers.

⑨ **LAN connector:** Connects to LAN hub.

⑩ **printer port:** Connects to printer (25-pin, female connector).

⑪ **serial port:** Connects to (a) an external analog modem (9-pin, female connector) or (b) the system reset key, which enables you to restore default settings.

> ***Caution:*** *The system reset key restores all factory default settings. Using the system reset key will delete all configuration settings, user definitions, and user profile information.*

⑫ **USB port:** This port is reserved for factory use only.

⑬ **power input socket:** Connects to a power supply adapter.

⑭ **GND terminal:** Connects to ground (earth).

⑮ **air vents:** Permit cooling air flow around unit and enable the stand to be installed.

⑯ **EXP LAN connector:** Connects to LAN hub or ADSL modem via a LAN cable.

Troubleshooting - TCP/IP Setup

If you have trouble detecting the TEAC Microserver using the Vendotto Manager software, you will need to configure the TCP/IP protocol to enable communication between your setup computer and the Microserver. If there is no DHCP server on your network, assign a static IP address to your setup computer.

Note: *For wireless LAN setup, set the values of ESS ID to "WLANESSID" and Channel to "1" in your setup computer using the setup tool that came with your wireless LAN adapter. These values are the default settings of the TEAC Microserver.*

Depending on your Windows version, please refer to one of the following procedures to configure your TCP/IP setting:

TCP/IP Setup for Windows 98/Me

1. Go to [My Computer] –> [Control Panel] –> [Network].
2. Select [TCP/IP -> xxxxxxx] from [Network], then click the [Properties] button.
3. Select the [IP address] tab in [TCP/IP Properties] and set up an IP address.
4. Click the [OK] button when you complete the setup.

Select [Obtain an IP address automatically] *if there is a DHCP server on your network. If there is no DHCP server on your network, select* [Specify an IP address] *and enter an IP address and subnet mask (i.e., IP address: 192.168.11.100, Subnet mask: 255.255.255.0).*

TCP/IP Setup for Windows 2000/XP

1. Login as Administrator and go to [My Computer] –> [Control Panel] –> [Network and Dial-up Connections].
2. In [Network and Dial-up Connections], select [Properties] from the menu that pops up when you right-click on [Local Area Connection].
3. Select [Internet Protocol (TCP/IP)] and click the [Properties] button.
4. Specify an IP address in [Properties] for the [Internet Protocol (TCP/IP)] you selected.
5. Click the [OK] button when you complete the setup.

Select [Obtain an IP address automatically] *if there is a DHCP server on your network. If there is no DHCP server on your network, select* [Specify an IP address] *and enter an IP address and subnet mask (i.e., IP address: 192.168.11.100, Subnet mask: 255.255.255.0).*

Starting Vendotto Manager Software

1. To launch the Vendotto Manager software, double-click the [Vendotto Manager] shortcut created on your desktop or click the [Start] button, then select [Programs]->[Vendotto Manager].

   Vendotto Manager will scan the network and detect the setup computer and any TEAC NAS Microserver that has already been assigned a dynamic IP address by a DHCP server. (Figure 3 lists only the setup computer, because an IP address has not yet been assigned to the Microserver.)

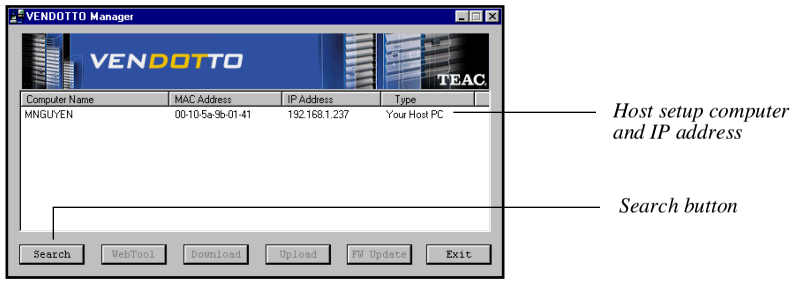

Figure 3. Vendotto Manager After Scanning Network

2. If an IP address has not yet been assigned to the Microserver, click the [Search] button (Figure 3). (You may need to repeat the search a few times if the NAS Microserver is not found.)

   Vendotto Manager will detect the TEAC NAS Microserver and display the following message, indicating that a unit without an IP address has been detected:

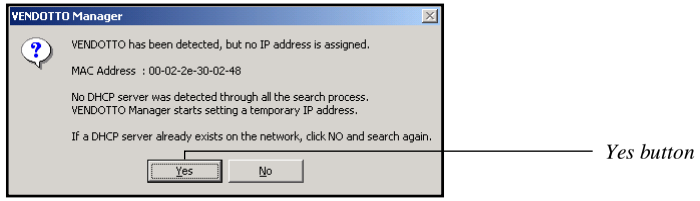

Figure 4. Vendotto Message: Unit Without IP Address Detected

3. Click the [Yes] button (Figure 4).

   Vendotto Manager will assign a temporary IP address to the TEAC NAS Microserver, configuring the unit as a DHCP client using default settings, and then display a message (Figure 5) informing you of the temporary IP address.

4. Click the [OK] button (Figure 5).

Note: *The temporary IP address will be deleted automatically in about two hours. Before time expires, you must establish a static IP address using the Basic Setup menu in Vendotto Manager's WebTool (Figure 8).*

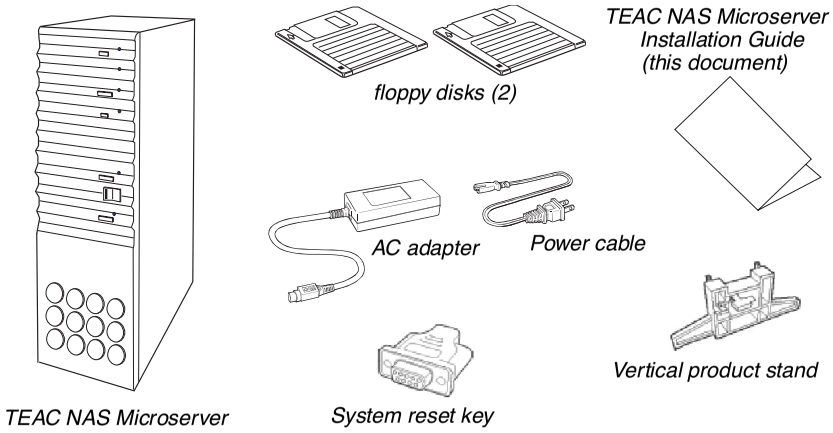

Figure 1. NAS Microserver Package Contents

***Note:** If any of the items above is missing from your kit upon purchase, please contact your vendor immediately for a replacement kit.*

Front and Rear Panels

Figure 4 illustrates the front and rear panels of the TEAC NAS Microserver.

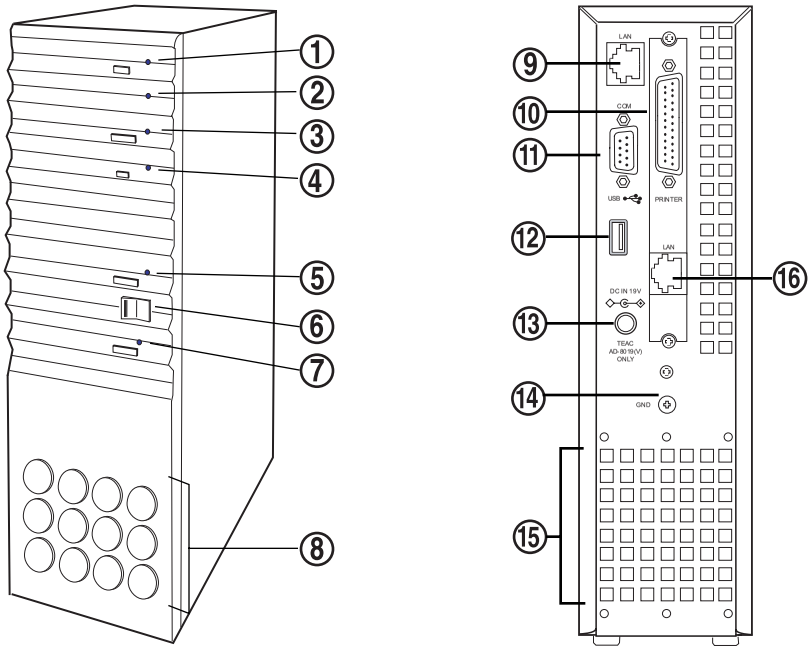

Figure 2. Front and Rear Panels

Technical Support

For technical support, please contact the TEAC Service and Support Center:

TEAC America, Inc. (USA)
Technical Support
Telephone: (323) 727-4860 • Fax: (323) 869-8751
Monday - Friday 8:00 a.m. - 5:00 pm PST
http://www.teac.com/DSPD/techsupport.htm

E-mail: dspdtsg@teac.com

Warranty

This product is warranted by TEAC America, Inc. against defects in materials and workmanship.

LENGTH OF WARRANTY – This warranty will be effective for both labor and parts, and this warranty will be effective for one (1) year from the date of original purchase.

WHO MAY ENFORCE THE WARRANTY - This warranty is valid only in the United States, and enforceable only by the original purchaser. This warranty is not valid outside the United States.

WHAT IS NOT COVERED BY THIS WARRANTY

1. Damage to or deterioration of the external cabinet.
2. Damage resulting from accident, misuse, abuse, or neglect.
3. Damage resulting from failure to follow instructions contained in your user's manual.
4. Damage occurring during shipment of the product (claims must be presented to the carrier).
5. Damage resulting from repair or attempted repair by anyone other than TEAC Service Department.
6. Damage resulting from modification or attempted modification of product not authorized by TEAC.
7. Damage resulting from causes other than product defects, including lack of technical skill, competence, or experience of the user.
8. Damage to any unit which has been altered or on which the serial number has been defaced, modified or removed.
9. Damage or malfunction resulting from installation and cabling.
10. For wireless configurations, TEAC cannot be responsible for interference or operation in locations that restrict range.
11. Damage to or from interconnected network equipment.
12. Data integrity or loss of data.

HOW YOU CAN GET WARRANTY SERVICE – Please contact TEAC service department for Return Authorization number before shipping unit(s) to TEAC. Information required for R/A request should include your name and/or company name, telephone number, TEAC model, version and serial number(s). Return Authorization (R/A) number must be clearly marked on the outside of each carton shipped to TEAC. Return merchandise must be packed in original shipping containers or otherwise packed adequately to prevent damage in shipment. You are responsible for all risk of damage to or loss of merchandise in transit to TEAC. TEAC reserves the right to reject any merchandise that is not packaged and/or marked as instructed hereon. You must pay any shipping charges if it is necessary to ship the product for service. However, if the necessary repairs are covered by the warranty, we will pay the return shipping charges to any destination within the United States. Whenever warranty service is required, you must present a copy of the original dated sales receipt as proof of warranty coverage. Please contact us at the addresses listed at the end of this warranty statement.

WHAT TEAC WILL PAY FOR - We will pay all labor and material expenses for items covered by the warranty. Payment of shipping charges is discussed in the next section of this warranty.

LIMITATION OF IMPLIED WARRANTIES

Any implied warranties, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, are limited in duration to the length of this warranty.

EXCLUSION OF DAMAGES

TEAC'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO REPAIR OR REPLACEMENT OF THE PRODUCT, AT TEAC'S OPTION. TEAC SHALL NOT BE LIABLE FOR DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, INTERRUPTED OPERATION OR COMMERCIAL LOSS, LOST PROFITS OR ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR OTHERWISE.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific rights, and may vary from some of the rights provided by law. These rights may vary from State to State.

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Connecting the Microserver Hardware

1. Connect one end of a straight (non-crossover) Cat5 Ethernet cable to the LAN connector near the top of the rear panel of the Microserver (Figure 2, item 9).

   Note: *Do not connect the Ethernet cable to the EXP LAN connector on the expansion LAN board, or else the Microserver will not function properly.*

2. Connect the other end of the Ethernet cable to an Ethernet hub or switch.
3. Insert the plug on the power supply adapter cable into the power input socket of the NAS Microserver (Figure 2, item 13).
4. Insert the small plug of the power cable into the power supply adapter, then insert the large plug of the power cable into an AC outlet.
5. Turn on the power to the NAS Microserver, then wait for the Microserver to enter and complete the "Ready for Setup" mode described below:

   At start up, the Power LED on the front panel will start to flash green, and continue to flash until the end of the power-on cycle and an IP address has been assigned. It will remain lit during normal operation.

   The NAS Microserver is configured by default to obtain an IP address automatically from an existing DHCP server. If no DHCP is available, the Status LED (Figure 2, item 3) will remain lit in red indicating that no IP address has been assigned to the NAS Microserver.

Wireless Connection

Once the wireless feature has been properly configured, the TEAC NAS Microserver will function as an Access Point to your wired network, enabling the Microserver to communicate with any system equipped with an IEEE 802.11b wireless LAN adapter. (Note: A wireless LAN card is built into the TEAC NAS Microserver. If a wireless LAN card is not already installed in your PC, you will need to install one to enable wireless communication.) For more information, refer to the *TEAC Vendotto Operation Manual*.

Installing the Vendotto Manager Software

Insert the floppy disk that contains the Vendotto Manager software into a floppy disk drive on the host setup computer, which must be connected to the network.

Double-click the Setup.exe icon, and follow the instructions on screen to complete the installation.

TCP/IP Setup for Windows NT 4.0

1. Login as Administrator and go to [My Computer] –> [Control Panel] –> [Network].
2. Select [TCP/IP Protocol] and click the [Properties] button.
3. Select the [IP Address] tab in [TCP/IP Properties].

   Select [Obtain an IP address automatically] *if there is a DHCP server on your network. If there is no DHCP server on your network, select* [Specify an IP address] *and enter an IP address and subnet mask (i.e., IP address: 192.168.11.100, Subnet mask: 255.255.255.0).*

Backing Up Data Using Vendotto Sync

The TEAC NAS Microserver also includes a Windows backup software application called Vendotto Sync. To install this software, run the Setup.exe file from the Vendotto Sync floppy disk and follow the menu-driven installation steps.

Restoring Default Settings

You can restore the factory default settings to the TEAC NAS Microserver. This may be useful after a software crash. First, turn off the Microserver, then plug the system reset key (Figure 1) into a serial port on the Microserver (Figure 2). Press the Microserver Power button. The Status, HDD, and Power LEDs will flash. When the system recovery is complete, the Status LED will stop flashing and remain lit. Turn off the power to the Microserver, then unplug the key.

Caution: *Do not turn off the power during this recovery cycle. This procedure will take approximately six minutes to complete.*

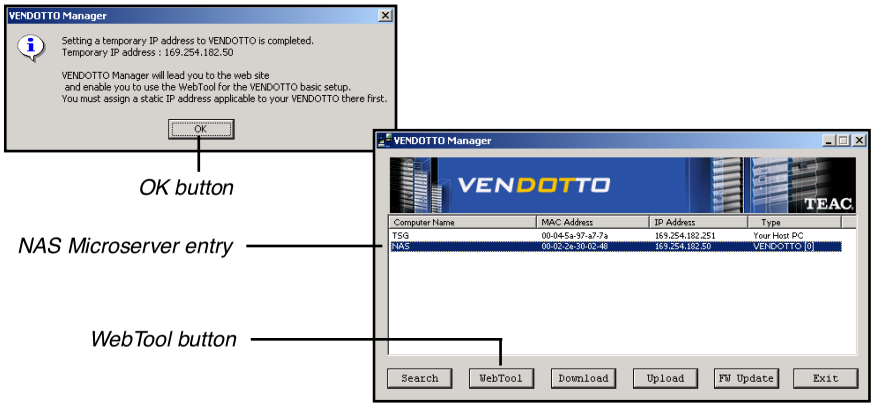

Figure 5. Vendotto Manager Displaying New IP Address

4. Double-click on the NAS Microserver name [NAS] (Figure 5).

   Vendotto Manager will launch your system's web browser (Internet Explorer is used in these examples) and access the Vendotto WebTool on the Internet. (If your browser fails to launch automatically, click the WebTool button in Figure 5.)

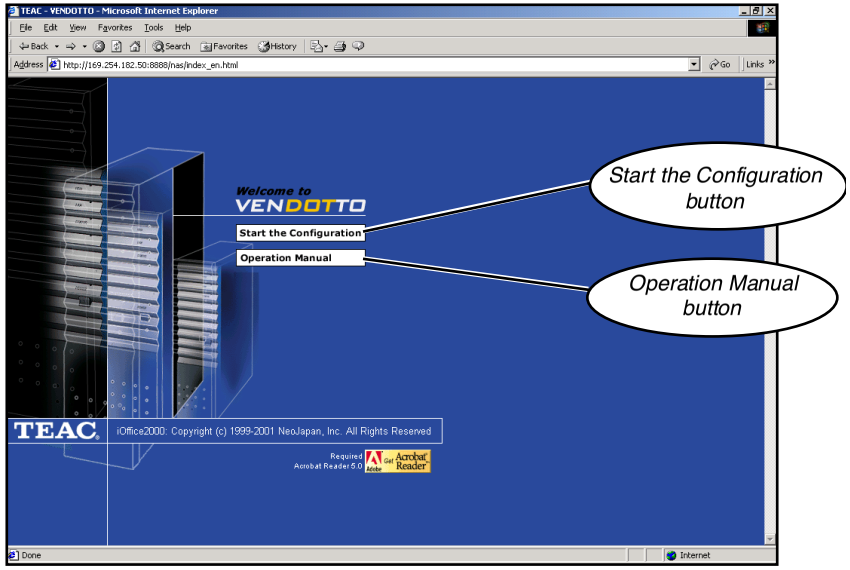

Figure 6. Vendotto Welcome Screen

5. Click the [Start the Configuration] button on the Vendotto Welcome screen (Figure 6).

   The software will display the Enter Network Password panel (Figure 7).

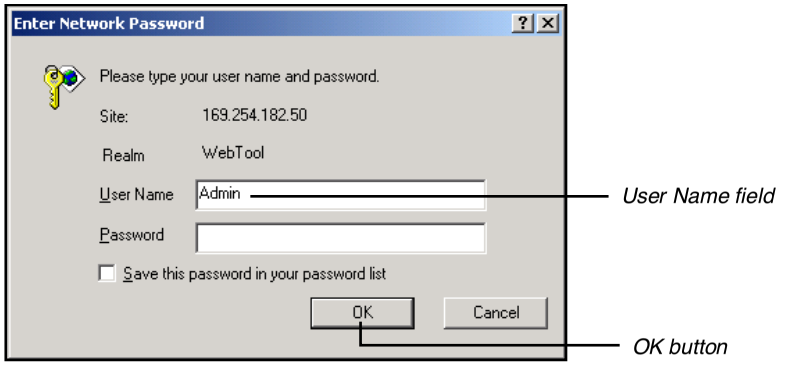

Figure 7. Enter Network Password Panel

6. In the User Name field, key in Admin.

   This field is case-sensitive, so be sure to capitalize "A." Leave the Password field blank. (You can assign a password later).

7. Click the OK button (Figure 7).

   The browser will display the Vendotto Main Menu (Figure 8).

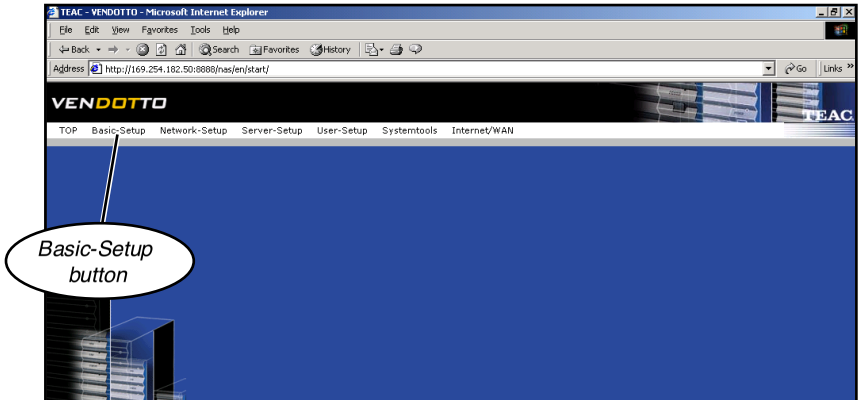

Figure 8. Vendotto Main Menu (Partial Screen)

8. Click the [Basic-Setup] button (Figure 8).

   The browser will display the Basic Setup panel. Enter data into this panel as required. Then continue across the menu bar (Network-Setup, Server-Setup, User-Setup, etc., as illustrated in Figure 8) completing the corresponding panels as required

   Refer to the online *Vendotto Operation Manual* for more information. You can access this document by clicking the [Operation Manual] button in Vendotto WebTool (Figure 6).